Form G-2
(Rev. 7/03)

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:
☐ Open Flow
☐ Deliverabilty

(See Instructions on Reverse Side)

Test Date:

API No. 15
15-023-21313-00-00

Company	Lease	Well Number
Noble Energy Inc	R. Zweygardt	44-32

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
Cheyenne	S2-SE-SE	32	5S	39W	

Field	Reservoir	Gas Gathering Connection
Prairie Star	Niobrara	Kinder Morgan

Completion Date	Plug Back Total Depth	Packer Set at
6/3/2011	1519'	

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
7", 4-1/2"	17#, 10.5#	9-7/8", 6-1/4"	391,1559'	1336'	1362'

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2-3/8'	4.7#	1.995			

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger? Yes / No
Single (gas)	Saltwater	Yes

Producing Thru (Annulus / Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
Tubing			

Vertical Depth(H)	Pressure Taps	(Meter Run) (Prover) Size

Pressure Buildup: Shut in 6/8 20 11 at 10:00 (AM) (PM) Taken _____ 20 ___ at _____ (AM) (PM)

Well on Line: Started 6/20 20 11 at 11:45 (AM) (PM) Taken _____ 20 ___ at _____ (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 289 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H_2O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Casing psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						205					
Flow											

FLOW STREAM ATTRIBUTES

Plate Coeffiecient (F_b) (F_p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m x h}$	Gravity Factor F_g	Flowing Temperature Factor F_{tt}	Deviation Factor F_{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G_m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$ = _____ : $(P_w)^2$ = _____ : P_d = _____ % $(P_c - 14.4) + 14.4$ = _____ : $(P_a)^2$ = 0.207 $(P_d)^2$ = _____

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" --or-- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow _____ Mcfd @ 14.65 psia Deliverability _____ Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 28 day of November, 20 11.

Witness (if any)

For Company

For Commission

Checked by

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DEC 13 2011
KCC WICHITA

Form G-2
(Rev. 7/03)

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

I hereby request a one-year exemption from open flow testing for the R Zweygardt 44-32 gas well on the grounds that said well:

(Check one)

- [ ] is a coalbed methane producer
- [ ] is cycled on plunger lift due to water
- [ ] is a source of natural gas for injection into an oil reservoir undergoing ER
- [ ] is on vacuum at the present time; KCC approval Docket No. _____
- [x] is not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: 11/28/2011

Signature: Cheryl Johnson

Title: Regulatory Analyst II

Instructions: If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form shall be signed and dated on the front side as though it was a verified report of annual test results.

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EMPACT

NATURAL GAS ANALYSIS

PROJECT NO. :	**201109152**	ANALYSIS NO. :	**09**
COMPANY NAME :	**NOBLE ENERGY**	ANALYSIS DATE :	OCTOBER 4, 2011
ACCOUNT NO. :	YUMA	SAMPLE DATE :	SEPTEMBER 22, 2011
PRODUCER :		TO :	
LEASE NO. :	E1502321313	EFFECTIVE DATE :	NOVEMBER 1, 2011
NAME/DESCRIP. :	R ZWEYGARDT 44-32		

FIELD DATA

SAMPLED BY :	JOSHUA WALTERS	CYLINDER NO. :	640
SAMPLE PRES. :	49	AMBIENT TEMP. :	
SAMPLE TEMP. :	76	GRAVITY :	
SAMPLE TYPE :	*SPOT*	VAPOR PRES. :	
FIELD COMMENTS :	*NO PROBE*		
LAB COMMENTS :			

COMPONENTS	NORM. MOLE%	GPM @ **14.65**	GPM @ **14.73**
HELIUM	0.11	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.05	-	-
NITROGEN	4.38	-	-
CO2	0.62	-	-
METHANE	92.83	-	-
ETHANE	1.38	0.367	0.369
PROPANE	0.43	0.118	0.118
ISOBUTANE	0.07	0.023	0.023
N-BUTANE	0.08	0.025	0.025
ISOPENTANE	0.02	0.007	0.007
N-PENTANE	0.01	0.004	0.004
HEXANES+	0.02	0.009	0.009
TOTAL	100.00	0.553	0.555

BTU @ 60 DEG F	**14.65**	**14.73**
NET DRY REAL =	881.8	886.6
NET WET REAL =	866.4	871.2
GROSS DRY REAL =	978.8	984.2
GROSS WET REAL =	961.7	967.1

RELATIVE DENSITY REAL (AIR=1 @ 14.696 PSIA 60F) : 0.5929

COMPRESSIBILITY FACTOR : 0.99801

NOTE: REFERENCE GPA 2261(ASTM D1945), 2145, & 2172 CURRENT PUBLICATIONS

THIS DATA HAS BEEN ACQUIRED THROUGH APPLICATION OF CURRENT STATE-OF-THE-ART ANALYTICAL TECHNIQUES. THE USE OF THIS INFORMATION IS THE RESPONSIBLITY OF THE USER. EMPACT ANALYTICAL SYSTEMS, ASSUMES NO RESPONSIBLITY FOR ACCURACY OF THE REPORTED INFORMATION NOR ANY CONSEQUENCES OF IT'S APPLICATION.

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